PCT

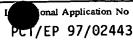
09/18078

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER ACTION	see Notification of (Form PCT/ISA/2	Transmittal of International Search Report 220) as well as, where applicable, item 5 below.
International application No.	International filing date(lay/month/year)	(Earliest) Priority Date (day/month/year)
PCT/EP 97/02443	13/05/19	97	14/05/1996
Applicant			
NOVARTIS AG et al.			
This International Search Report has be according to Article 18. A copy is being	en prepared by this Internat transmitted to the Internation	onal Searching Autonal Bureau.	hority and is transmitted to the applicant
This International Search Report consist X It is also accompanied by a co	ts of a total of 5 py of each prior art docume	sheets. nt cited in this repo	rt.
Certain claims were found unse	earchable (see Box I).		
2. Unity of invention is lacking (s	ee Box II).		
3. X The international application of international search was carried	ontains disclosure of a nucl e d out on the basis of the sec	otide and/or amino uence listing	acid sequence listing and the
X file	ed with the international app	lication.	
fu	rnished by the applicant sepa		
	but not accompanied matter going beyond	by a statement to the the disclosure in the	ne effect that it did not include international application as filed.
	anscribed by this Authority		
,	e text is approved as submit		
, th	e text has been established b	y this Authority to	read as follows:
5. With regard to the abstract,			
I LAJ	e text is approved as submit		
B ₁	e text has been established, a ox III. The applicant may, w arch Report, submit comme	ithin one month fro	3.2(b), by this Authority as it appears in om the date of mailing of this International y.
6. The figure of the drawings to be pu			[
	suggested by the applicant.		None of the figures.
300	cause the applicant failed to		
be	cause this figure better char	acterizes the inventi	on.

INTERNATIONAL SEARCH REPORT



A. CLASSIFICATION OF SUBJECT MATTER IPC 6 C12N15/82 C12N9/12 C07K14/415 A01H5/00 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) C12N A01H C07K IPC 6 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Citation of document, with indication, where appropriate, of the relevant passages Category ' HANNA, W.W. AND BASHAW, E.C.: "APOMIXIS: 1,2 X ITS IDENTIFICATION AND USE IN PLANT BREEDING" CROP SCIENCE, vol. 27, November 1987, pages 1136-1139, XP002040859 see page 1138, left-hand column Patent family members are listed in annex. Further documents are listed in the continuation of box C. Х Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to filing date involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another 'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docucitation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or ents, such combination being obvious to a person skilled other means in the art document published prior to the international filing date but "&" document member of the same patent family later than the priority date claimed Date of mailing of the international search report Date of the actual completion of the international search .3 O. UJ. J(17 September 1997 Authorized officer Name and mailing address of the ISA

Form PCT/ISA/210 (second sheet) (July 1992)

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Holtorf, S

POOL DOCUMENTS CONSIDERED TO BE RELEVANT	
Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
KOLTUNOW, A.M., ETAL .: "APOMIXIS: MOLECULAR STRATEGIES FOR THE GENERATION OF GENETICALLY IDENTICAL SEEDS WITHOUT FERTILIZATION" PLANT PHYSIOLOGY.	1,2,16, 35-41
vol. 108, 1995, pages 1345-1352, XP002040860 page 1345, right column, line 1-7; page 1347, right column; page 1348, right column, line 35-50; page 1349, 1350, 1351, left column, line 18-21; Fig. 2 + 3	9
KOLTUNOW, A.M.: "APOMIXIS: EMBRYO SACS AND EMBRYOS FORMED WITHOUT MEIOSIS OR FERTILIZATION IN OVULES" THE PLANT CELL, vol. 5, October 1993,	1,2,16, 35-41
pages 1425-1437, XP002040861 see the whole document	9
WO 89 00810 A (MAXELL HYBRIDS INC) 9	1,2,16, 35-41
pages 7,15,29-35	9
MARTIN, G.B.M., ET AL .: "A MEMBER OF THE TOMATO Pto GENE FAMILY CONFERS SENSITIVITY TO FENTHION RESULTING IN RAPID CELL DEATH" THE PLANT CELL, vol. 6, 1994,	21-28, 30,32, 34-39
pages 1543-1552, XP002040862 page 1546; Fig.4	9
SONG, W-Y, ET AL .: "A RECEPTOR KINASE-LIKE PROTEIN ENCODED BY THE RICE DISEASE RESISTANCE GENE , Xa21" SCIENCE, vol. 270, 15 December 1995, pages 1804-1806, XP002040863	24,30, 32,35-39
newman, T., ET AL .: "GENES GALORE: A SUMMARY OF METHODS FOR ACCESSING RESULTS FROM LARGE-SCALE PARTIAL SEQEUNCING OF ANONYMOUS ARABIDOPSIS cDNA CLONES" PLANT PHYSIOLOGY, vol. 106, 1994, pages 1241-1255, XP000571449 see the whole document	27,28
	KOLTUNOW, A.M., ETAL .: "APOMIXIS: MOLECULAR STRATEGIES FOR THE GENERATION OF GENETICALLY IDENTICAL SEEDS WITHOUT FERTILIZATION" PLANT PHYSIOLOGY, vol. 108, 1995, pages 1345-1352, XP002040860 page 1345, right column, line 1-7; page 1347, right column; page 1348, right column, line 35-50; page 1349, 1350, 1351, left column, line 18-21; Fig. 2 + 3 KOLTUNOW, A.M.: "APOMIXIS: EMBRYO SACS AND EMBRYOS FORMED WITHOUT MEIOSIS OR FERTILIZATION IN OVULES" THE PLANT CELL, vol. 5, October 1993, pages 1425-1437, XP002040861 see the whole document WO 89 00810 A (MAXELL HYBRIDS INC) 9 February 1989 pages 7,15,29-35 MARTIN, G.B.M., ET AL .: "A MEMBER OF THE TOMATO Pto GENE FAMILY CONFERS SENSITIVITY TO FENTHION RESULTING IN RAPID CELL DEATH" THE PLANT CELL, vol. 6, 1994, pages 1543-1552, XP002040862 page 1546; Fig.4 SONG, W-Y, ET AL .: "A RECEPTOR KINASE-LIKE PROTEIN ENCODED BY THE RICE DISEASE RESISTANCE GENE , Xa21" SCIENCE, vol. 270, 15 December 1995, pages 1804-1806, XP002040863 see the whole document NEWMAN, T., ET AL .: "GENES GALORE: A SUMMARY OF METHODS FOR ACCESSING RESULTS FROM LARGE-SCALE PARTIAL SEQEUNCING OF ANONYMOUS ARABIDOPSIS CDNA CLONES" PLANT PHYSIOLOGY, vol. 106, 1994, pages 1241-1255, XP000571449

1

C (C1	tion) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	NEWMAN,T., ET AL.: "GENES GALORE: A SUMMARY OF METHODS FOR ASSESSING RESULTS FROM LARGE-SCALE PARTIAL SEQUENCING OF ANONYMOUS ARABIDOPSIS cDNA CLONES" EMBL SEQUENCE DATA LIBRARY, 30 August 1993, HEIDELBERG, GERMANY, XP002040864 ACCESSION No. T04109	27,28
X	NEWMAN, T., ET AL .: "GENES GALORE: A SUMMARY OF METHODS FOR ASSESSING RESULTS FROM LARGE-SCALE PARTIAL SEQUENCING OF ANONYMOUS ARABIDOPSIS cDNA CLONES" EMBL SEQUENCE DATA LIBRARY, 27 July 1995, HEIDELBERG, GERMANY, XP002040865 ACCESSION No. H37195	28
X	NEWMAN, T., ET AL.: "GENES GALORE: A SUMMARY OF METHODS FOR ASSESSING RESULTS FROM LARGE-SCALE PARTIAL SEQUENCING OF ANONYMOUS ARABIDOPSIS cDNA CLONES" EMBL SEQUENCE DATA LIBRARY, 27 July 1995, HEIDELBERG, GERMANY, XP002040866 ACCESSION No. H36800	28
X	DESPREZ, T., ET AL.: "THE ARABIDOPSIS THALIANA TRANSCRIBED GENOME: THE GDR cDNA PROGRAM" EMBL SEQUENCE DATA LIBRARY, 25 June 1994, HEIDELBERG, GERMANY, XP002040867 ACCESSION No. Z34606	28
Α	DECROOCQ-FERRANT, V., ET AL.: "PETUNIA HYBRIDA HOMOLOGUES OF shaggy/zeste-white 3 EXPRESSED IN FEMALE AND MALE REPRODUCTIVE ORGANS" THE PLANT JOURNAL, vol. 7, no. 6, 1995, pages 897-911, XP002040868 see page 907, right-hand column	1-46
P,X	SCHMIDT, E.D.L., ET AL .: "A LEUCINE-RICH REPEAT CONTAINING RECEPTOR-LIKE KINASE MARKS SOMATIC PLANT CELLS COMPETENT TO FORM EMBRYOS" DEVELOPMENT, vol. 124, no. 10, 1997, pages 2049-2062, XP002040869 see the whole document	16-18, 21-32, 34-37, 39,45
	-/	

1

INTERNATIONAL SEARCH REPORT

tional Application No PCT/EP 97/02443

	n) DOCUMENTS CONSIDERED TO BE RELEVANT	Relevant to claim No.	
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant w ciaim No.	
У, Х	WO 97 11167 A (US GOVERNMENT) 27 March 1997 page 1,5,21,24	1,2,41	
Р,Х	WO 97 10704 A (US GOVERNMENT) 27 March 1997 see the whole document	1,2,41	
	<u>:</u>		

1

INTERNATIONAL SEARCH REPORT

ion on patent family members

tional Application No PCT/EP 97/02443

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 8900810 A 09	09-02-89	AU 629796 B AU 2255288 A EP 0329736 A CN 1040123 A JP 5503836 T	15-10-92 01-03-89 30-08-89 07-03-90 24-06-93
WO 9711167 A	27-03-97	AU 7367396 A	09-04-97
WO 9710704 A	27-03-97	AU 7367496 A	09-04-97